10¢

Operating/Service Instructions

18 INCH ELECTRIC ROTARY MOWER

Model Nos. 182-850

IMPORTANT

SAFE OPERATION PRACTICES - WALK BEHIND MOWERS

TRAINING

1. Read the Operating and Service Instruction Manual carefully. Be thoroughly familiar with the controls and proper use of the equipment.
2. Never allow children to operate a power mower.
3. Keep the area of operation clear of all persons, particularly small children, and pets.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used and remove all stones, sticks, wire, bones and other foreign objects.
2. Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
3. Check fuel before starting engine. Do not fill gasoline tank indoors, when engine is running, or while engine is still hot. Wipe off any spilled gasoline before starting engine.
4. Disengage self-propelled mechanism or drive clutch on units so equipped before starting engine (motor).
5. Never attempt to make a wheel height adjustment while engine (motor) is running.
6. Mow only in daylight or in good artificial light.
7. Never operate equipment in wet grass. Always be sure of your footing; keep a firm hold on the handle and walk; never run.

OPERATION

1. Do not change engine governor settings or overspeed engine.
2. Do not put hands or feet near or under rotating parts. Keep clear of discharge opening at all times.
3. Stop blade(s) when crossing gravel drive, walks or roads.
4. After striking a foreign object, stop the engine (motor), remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.
5. If the equipment should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.
6. Stop engine (motor) whenever you leave the equipment, before cleaning mower housing, and when making any repairs or inspections.
7. When cleaning, repairing or inspecting, make certain blade and all moving parts have stopped. Disconnect spark plug wire and keep wire away from plug to prevent accidental starting.
8. Do not run engine (motor) indoors.
9. Shut engine (motor) off and wait until blade comes to a complete stop before removing grass catcher and/or unclogging chute.
10. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes.
11. Always disconnect electric mowers (line operated) before cleaning, repairing, or adjusting.
12. Never operate mower without proper guards, plates or other safety protective devices in place.
13. Keep washout ports and other mower housing service openings closed when mowing.

MAINTENANCE AND STORAGE

1. Check blade and engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure equipment is in safe working condition.
3. Never store equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
4. To reduce fire hazard keep engine free of grass, leaves or excessive grease.
5. Check grass catcher bags frequently for wear or deterioration. Replace with new bags for safety protection.

MTD PRODUCTS INC • 5389 WEST 130th STREET • P. O. BOX 2741 CLEVELAND OHIO 44111
FORM NO. 770-3498

182-850

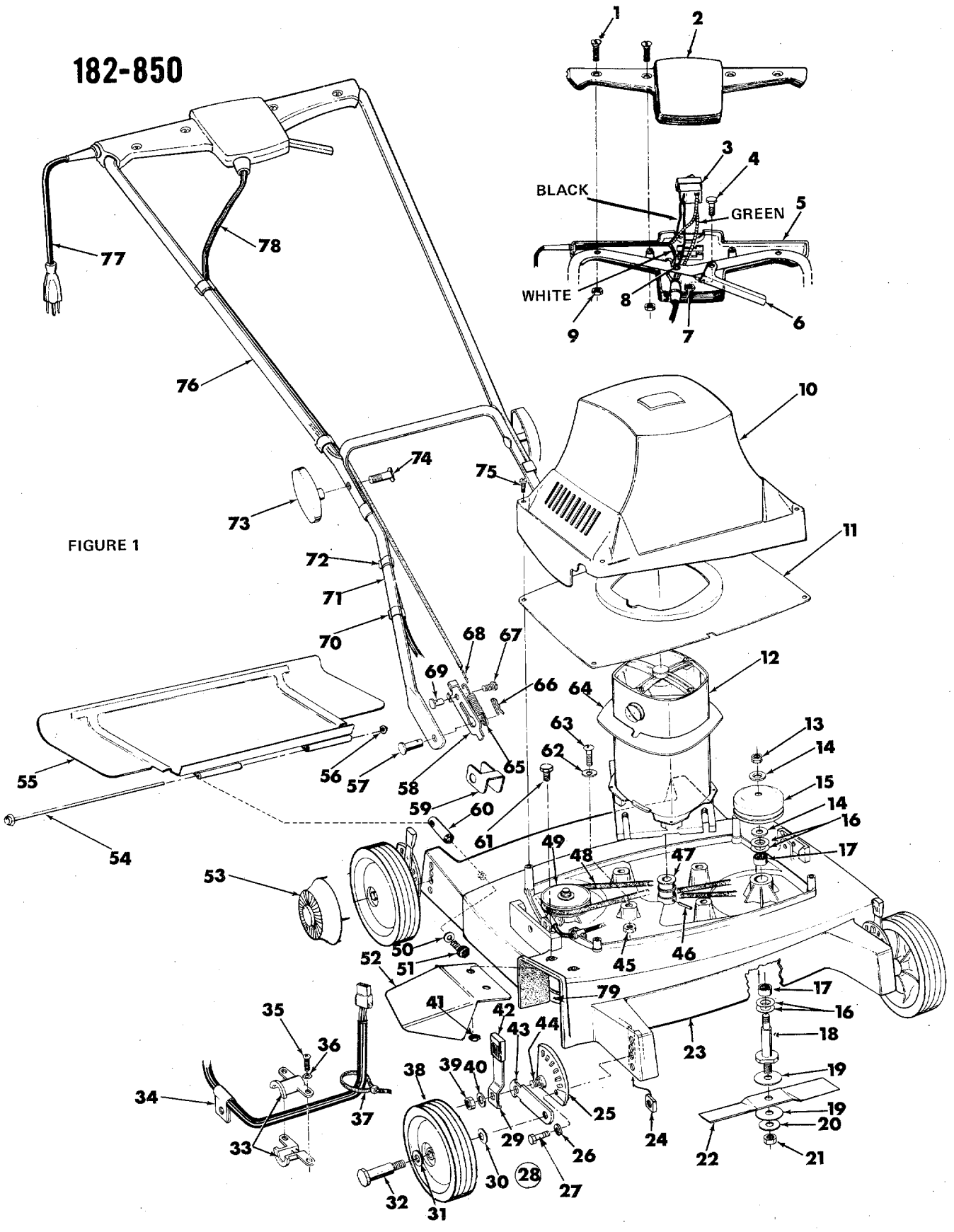


FIGURE 1

PARTS LIST FOR MODEL NO. 182-850

Ref. No.	Part No.	DESCRIPTION	Ref. No.	Part No.	DESCRIPTION
1	710-424	Phillips Drive Oval Head Scw. #8–32 x 1-1/8" Lg. *	40	736-219	Spring Lockwasher
			41	712-107	Hex Center Locknut 1/4–20 Thd.
2	10214	Handle Cover – Right Hand	42	305-7520	Knob
3	725-163	Switch	43	10937	Pivot Bar
4	710-166	Truss Hd. Cap Scw. 1/4–20 x 1-1/8" Lg. *	44	711-498	Shoulder Bolt – Special
5	10213	Handle Cover – Left Hand	45	712-219	Elastic Stop Nut 1/4–20 Thd.
6	10215	Handle – Up Stop	46	715-249	Roll Pin
7	712-107	Hex Center Locknut 1/4–20 Thd.	47	711-412	Motor Pulley
8	710-148	Hex Slotted Hd. Self Tap Scw. 8–32 x 3/8" Lg. *	48	754-141	Flat Belt
			49	10137	Spindle Pulley
9	712-223	Hex Nut #8–32 Thd. *	50	736-329	Spring Lockwasher 1/4" Scw. *
10	10876	Motor Cover	51	710-513	Hex Hd. Cap Scw. 1/4–20 x 5/8"Lg.(Nylock)
11	10200	Baffle	52	11179	Chute Deflector
12	725-162	Motor	53	305-9871	Hub Cap
13	712-116	Hex Elastic Nut 3/8–24 Thd.	54	11184	Hinge Rod
14	736-206	Washer	55	11175	Protective Shield
15	10138	Spindle Pulley	56	726-106	Push-On Flange Palnut
16	736-212	Thrust Washer	57	711-415	Clevis Pin
17	741-136	Roller Bearing	58	10216	Up Stop Bracket
18	711-411	Blade Spindle	59	11174	
19	736-110	Fiber Washer 17/32 I.D. x 1-23/32 x 1/16" Thk.	60	711-554	Hinge Pin
			61	710-289	Hex Hd. Cap Scw. 1/4–20 x 1/2" Lg. *
20	736-208	Flat Washer 33/64" I.D. x 1-1/2"O.D. x 14 Ga.	62	736-209	Flat Washer 17/64" I.D. x 3/4" O.D. x 16 Ga.
21	712-285	Hex Nut 1/2–20 Thd. (Nylock)	63	710-420	Pan Head Slot Drive Scw. 1/4–20 x 1-1/2" Lg. *
22	742-116	Blade – 9 Inch			
23	11447	Deck Assembly	64	735-111	Rubber Gasket
24	712-220	Square Nut 3/8–16 x 5/8" Sq. *	65	732-195	Spring
25	10934	Index Plate Assembly – Right Hand	66	714-104	Hair Pin Cotter
26	736-148	External Lockwasher 3/8" Scw. *	67	710-132	Round Hd. Scw. #8–32 x 3/8" Lg. *
27	710-253	Hex Hd. Cap Scw. 3/8–16 x 1 Lg. *	68	727-148	Braided Cable
28	10951	Height Adjuster Assembly – R. H.	69	711-416	Ferrule
	10950	Height Adjuster Assembly – L. H.	70	727-123	Cord Clips
29	10949	Spring Lever Assembly with Knob	71	10176	Lower Handle
30	736-105	Belleville Washer	72	746-145	Cable Clips
31	741-114	Ball Bearing	73	305-9966	Knob Handle
32	738-102	Axle Bolt	74	710-405	Curved Hd. Scw. 5/16–18 x 1-3/4" Lg.
33	10126	Strain Relief Connector	75	710-422	Pan Head Phillips Drive Scw. Self Tap 1/4–20 x 5/8" Lg. *
34	731-137	Nylon Clamp			
35	710-423	Pan Head Phillips Drive Self Tap Scw. #10–24 x 5/8" Lg. *	76	10198	Upper Handle
			77	725-167	Cord Set I
36	736-147	External Lockwasher #10 Scw. *	78	725-168	Cord Set II
37	725-157	Cable Tie	79	11180	Internal Bar
38	505-9383	Wheel Assembly – Complete	80	10199	PullGage (See Figure 4)
39	712-116	Elastic Locknut 3&8–24 Thd.	81	10139	Blade Wrench (Not Shown)

* For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part and size as shown on the parts list.

** NOTE: CAUTION – See Fig. 1 – If roller bearings must be replaced, be sure that the seal is the opposite way of the arrow shown in Fig. 1.

* Extension Cord 725-174 (Optional) – Carroll cable, 100 ft., 16 gauge, 3 wire, round. Also available through most hardware and department stores.

438-Polar Blue) When ordering parts if color or finish is important, use the appropriate color code shown at left. (e.g. Polar Blue finish – 11447 (438)).

ILLUSTRATED PARTS FOR ELECTRIC MOTOR

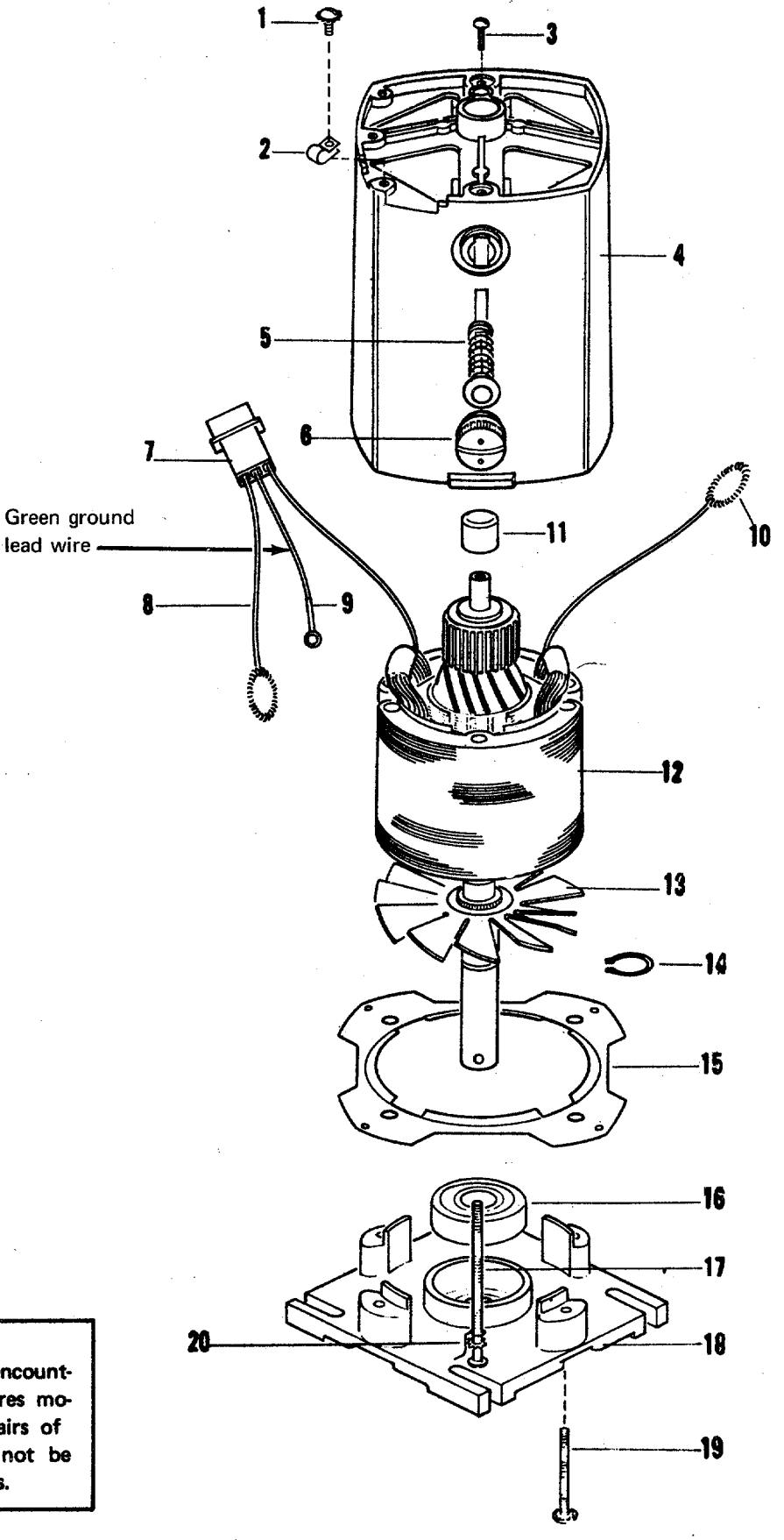


FIGURE 2

— NOTE—
Major motor difficulties encountered under warranty requires motor replacement . . . repairs of armatures and fields will not be accepted on a warranty basis.

PARTS LIST FOR ELECTRIC MOTOR (XL9005B)

REF. NO.	XL9005B PART NO.	DESCRIPTION	REF. NO.	XL9005B PART NO.	DESCRIPTION
1	XX1005	Screw	11	XL8167	Sleeve Bearing
2	XX802	Cord Clamp	12	XL8161	Field Assembly
3	XX1005	Screw – Locks Brush Holder	13	XL8158	Armature Assembly
			14	XL8160	Snap Ring
4	XL8165	Motor Housing Assembly	15	XL8164	Motor Baffle
5	XL8031	Carbon Brush & Spring	16	XL8092	Large Bearing
6	XL8032	Brush Cap	17	XX1105	Field Screw
7	XL8163	Pin Housing Connector	18	XL8166	Mounting Plate Assembly
8	XL8168	Lead & Spring Assembly	19	XX1104	Screw – Holds Key 18 to 4
9	XL8162	Ground Lead Assembly			
10	XL8051	Spring	20	XL8090	Clip

BELT ADJUSTMENT

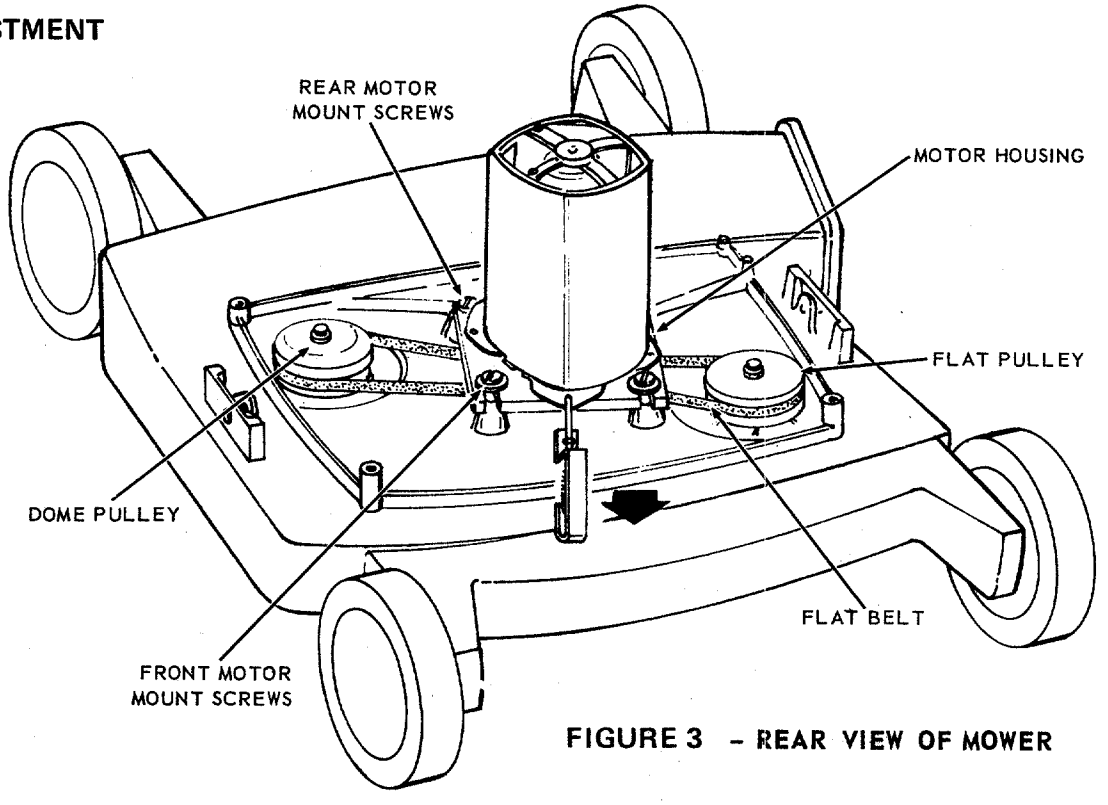


FIGURE 3 - REAR VIEW OF MOWER

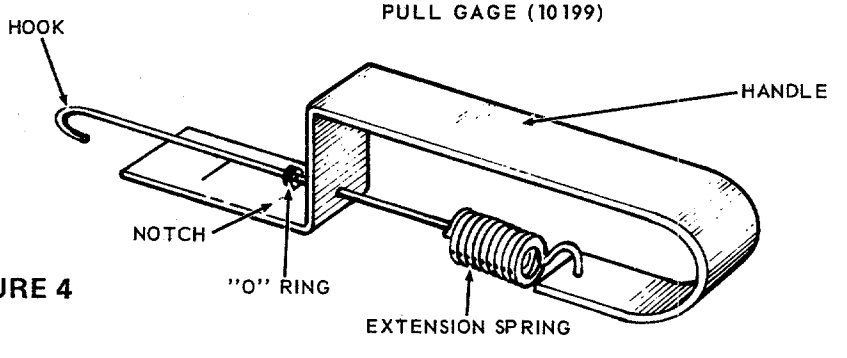


FIGURE 4

IMPORTANT: After striking a foreign object, stop the engine (motor), remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

ADJUSTMENT:

CAUTION: Do not at any time make any adjustments to your mower without first checking the following:

1. Turn the toggle switch to the off position.
2. Disconnect the extention cord.
3. Make sure the blades have stopped rotationg.

BELT ADJUSTMENT: (See Figs. 3 and 4)

The drive belts have been tensioned properly at the factory and shound not require adjustment during the first several seasons the mower is used.

If the mower with a sharp blade no longer produces a clean cut with either one or both of the blades and the motor runs at higher than normal speeds in thick grass, the belts should be re-tightened.

NOTE: Before attempting adjustment, be sure that the blades are sharp since dull blades are most often the cause of poor cutting.

It is very important that the procedure outlined below be followed very closely when re-tensioning the belts in order to obtain proper cutting performance and maximum life of the belts and components.

1. DISCONNECT THE ELECTRIC PLUG FROM THE EXTENSION CORD.
2. Remove the motor covering by loosening the 4 mounting screws and pull up. Remove the baffle.
3. Loosen but do not remove 4 motor mounting screws so that the motor is free to slide on the mounting pads. Turn screws 1 1/2 to 2 turns maximum to adjust best – NO more than 2 turns.
4. Using the pull gage, slide the O ring on the extension spring of the handle so that it lines up with the notch on the bracket nearest the spring, with the pull gage at rest.
5. Place the hook of the pull gage into hole of the motor plate (see fig. 3) on the back side of the mower. (The discharge chute is on the front side of the mower.)
6. Pull on the pull gage in the direction shown, perpendicular to the center line of the drive pulleys. Pull until the O ring lines up with the second notch on the bracket.
7. While holding the pull gage, so that the O ring lines up with the appropriate mark, turn one of the drive pulleys through several revolutions by hand to seat the belt properly; then tighten 2 of the motor mounting screws, Release the pressure on the pull gage and tighten the other 2 mounting screws.
8. Check by feel for equal tension on the belts and re-tension them if they are not tensioned alike.
9. Check to be sure that the power cord is clear of the belts and pulleys. Replace the baffle and motor cover.

INSTALLING NEW BELTS:

The above procedure should be followed with the exception that the steps listed below should be fbllowed in place of step 3 above.

3A Unscrew the four motor screws so that the nuts will drop out from the bottomside of the deck. CAUTION: Observe motor housing relation to the deck. Motor must be remounted in the same dirction.

3B Remove the old belts from the blade pulleys and lift the motor off the deck.

3C Place new belts, with the printed side out, on the motor pulley and lower the motor onto the deck so that the projection on the motor housing where the power cord enters it is closest to the side of the chute opening. Make sure that the upper belt on the motor pulley goes to the upper blade pulley, etc. Place the belt on the blade pulleys.

3D Screw the motor mounting bolts into the hex nuts which are trapped in the slots in the underside of the deck but DO NOT TIGHTEN. Tighten rear motor mounting screws and back off 1 - 1/2 turns – THIS IS VERY IMPORTANT. If the rear motor mounting screws are too loose when tightening the belts, the motor will be cocked causing improper belt tension. Return to step 4 above.

BLADE SHARPENING:

Blades should be kept sharp at all times in order to obtain a smooth cut. Dull blades will tear the grass rather than cut it, giving the lawn a brownish appearence.

To Sharpen Blades:

1. Disconnect the electric cord.
2. Place the mower on the chute side, letting it balance on the chute and the wheels.
3. Place special wrench supplied with the mower on the flat shoulder of the blade spindle and block wrench against underside of deck. This keeps the spindle from moving. †
4. Using 3/4" wrench or an adjustable crescent wrench remove blade nuts. CAUTION: When removing blade nuts, keep hands away from both blades.
5. When re-sharpening blades, be sure that the blades are balanced.
6. When replacing the blade on the spindle, check with figure 1 for correct assembly. Be sure the blade nuts are tight.

LUBRICATION:

WHEELS: Wheel bearings are ball bearing. They require lubrication periodically with light oil (S.A.E. No. 10 or 20).

MOTOR: The motor has been pre-oiled and will not require further lubrication for approximately 20 hours of operation. Lubricate every 20 hours after with SAE 20 motor oil. See service notes.

PROTECTIVE SHIELD: The pivot points on the protective shield should be lubricated periodically with light oil to prevent any rust or binding.

† Wrench part number 310-10139

eration. Lubricate every 20 hours therafter with SAE 20 motor oil. See service notes.

DECK: The underside of the mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate.

STORAGE: The following steps should be taken to prepare the mower for storage.

1. Clean and lubricate mower thoughly as described in the preceeding instructions.
2. Coat mower's cutting blades with chassis grease to prevent rust.
3. Place blocks under the deck to raise tires clear of the floor.
4. Store mower in dry, clean area.

MOWING HINTS:

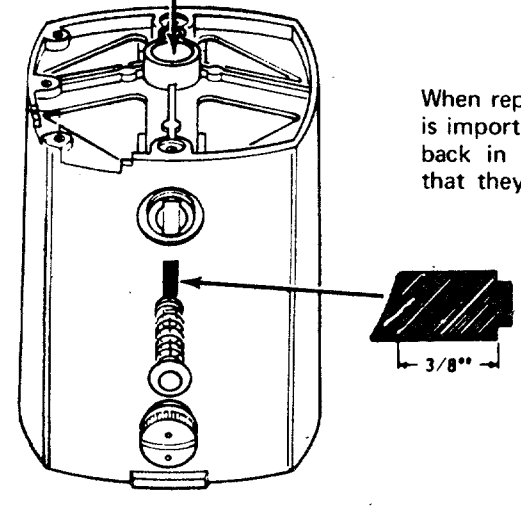
For best results, do not cut wet grass. It tends to stick to the underside of the mower thus preventing proper discharge of grass clippings. If heavy wet grass must be cut, reduce walking speed to allow more effective distribution of the clippings.

Begin mowing at the point nearest the electrical outlet keeping the cord close to the outlet and out of the way of the mower. Cut grass moving away from the outlet so that the cord lies in the cut portion of the lawn. Be sure that the clippings are discharged on the cut portion of the lawn.

EXTENSION CABLE LENGTH IN FEET		
UP TO 100'	100' to 200'	200' to 300'
Required Wire Size (A.W.G.) In Cable		
16 Ga.	14 Ga.	12 Ga.

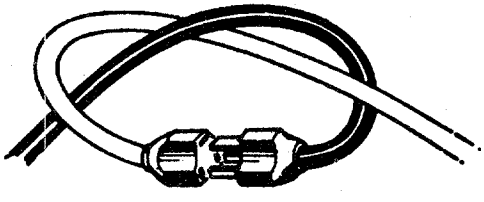
SERVICE NOTES

LUBRICATION NOTE:
Upper Bearing – Use SAE 20 Motor Oil
Do Not Over Lubricate!



When replacing the brushes it is important that they are put back in the exact same way that they were removed.

REPLACE BRUSHES WHEN WORN TO 3/8"



IF MOTOR FAILS TO START

1. Check connection between motor and extension cord.
2. Check connection between extension cords (if more than one is used.)
3. Check connection between power outlet and extension cord.
4. Check switch.
5. Check power outlet.

TO REMOVE MOTOR

1. Remove motor shroud.
2. Pull off motor leads.
3. Remove ground connection on motor frame.
4. Remove mounting bolts.

GRASS CATCHER Model No. 192-005 is available as optional equipment for the mower shown in this manual.

WARNING:

1. The mower should not be operated without the entire grass catcher or chute deflector in place.
2. The mower should not be operated without the protective shield on the rear of the deck in place.

NOTE:

Under normal usage bag material is subject to wear, and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-120.

IMPORTANT

After striking a foreign object, stop the engine (motor), remove wire from spark plug. Throughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

WARRANTY

For one year from date of purchase, MTD Products Inc will replace for the original purchaser, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. All transportation charges on parts submitted for replacement under this warranty must be paid by the purchaser. This warranty does not include replacement of parts which become inoperative through misuse, excessive use, accident, neglect, improper maintenance or alterations by unauthorized persons. This warranty does not include the engine, motor, battery, battery charger or any component parts thereof. For service on these units, refer to the applicable manufacturer's warranty.

The above warranty will apply only to the original owner and will be effective only if the warranty card has been properly processed. It will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. UNDER NO CIRCUMSTANCES WILL THE RETURN OF A COMPLETE UNIT BE ACCEPTED BY THE FACTORY UNLESS PRIOR WRITTEN PERMISSION HAS BEEN EXTENDED

PARTS INFORMATION

MOWER, TILLER, SNOW THROWER AND TRACTOR PARTS

Mower, tiller, snow thrower and tractor parts are available through the authorized service firms listed below. All orders should specify the model number of your unit, parts numbers, description of parts and the quantity of each part required.

ENGINE PARTS AND SERVICE

Engine parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing *Engines — Gasoline,* Briggs and Stratton or Tecumseh Lauson — Power Products.

A 1 Engine & Mower Co.
327 East 9th Street
Salt Lake City, Utah 84102

American Electric Ignition Co.
124 N. W. 8th Street
Oklahoma City, Oklahoma 73102

Auto Electric & Carburetor Co.
2625 4th Avenue, S.
P. O. Box 1948
Birmingham, Alabama 35233

Automotive Equipment Service Co.
3117 Holmes Street
Kansas City, Missouri 64109

Bailey's Rebuild Inc.
1325 E. Madison Street
Seattle, Washington 98102

Brown Equipment Distributor Inc.
110 Beech Street
Corydon, Indiana 47112

Bullard Supply
2409 Commerce Street
Houston, Texas 77003

Center Supply Company
6867 New Hampshire Avenue
Takoma Park, Maryland 20012

R. T. Clapp Co.
2016 Magnolia Ave., N. E.
Knoxville, Tennessee 37917

W. B. Clements
400 Salem Avenue
Roanoke, Virginia 24016

Morton B. Collins Co.
300 Birnie Avenue
Springfield, Massachusetts 01107

Dixie Sales Company
P. O. Box 1408
327 Battleground Avenue
Greensboro, North Carolina 27402

East Point Cycle & Key Shop
1617 Whiteway
East Point, Georgia 30044

Gamble Distributors
West End Avenue
Carthage, New York 13619

Garden Equipment Co., Inc.
6600 Cherry Avenue
Long Beach, California 90805

Henzler, Inc.
2015 Lemay Ferry Road
St. Louis, Missouri 63125

Frank E. Ives & Son
1101 Lincoln Avenue
Prospect Park, Pennsylvania 19076

J. W. Jewett Co.
981 Folsom Street
San Francisco, California 94107

Kenton Supply
8216 North Denver Avenue
Portland, Oregon 97217

Kimber's Inc.
615 W. Genesee Street
Syracuse, New York 13204

Marr Brothers
423 E. Jefferson
Dallas, Texas 75203

Mathews Auto Electric Co.
420 East 2nd Street
Tulsa, Oklahoma 74120

McClure Lawn & Garden Supply
1114 Lexington Avenue
Mansfield, Ohio 44907

Memphis Cycle & Supply Co.
421 Monroe Avenue
Memphis, Tennessee 38103

Moz-All of Florida, Inc.
365 Greco Avenue
Coral Gables, Florida 33146

National Central, Div. of Joe Sterling, Inc.
Drawer "D" 687 Seville Rd.
Wadsworth, Ohio 44281

Power Equipment Distributor
36463 So. Gratiot Avenue
Mt. Clemens, Michigan 48043

Parts & Sales Inc.
335 West St. Charles Road
Villa Park, Illinois 60181

Power Lawn & Garden Equip. Co.
2551-2571 J. F. Kennedy Road
Dubuque, Iowa 52001

Raub Supply Company
James & Mulberry Sts.
Lancaster, Pennsylvania 17604

Radco Distributors
2403 Market Street
P. O. Box 3216
Jacksonville, Florida 32206

Richmond Battery & Ignition
P. O. Box 25369 — 957 Myers St.
Richmond, Virginia 23260

Smith Hardware Company
515 N. George Street
Goldsboro, North Carolina 27530

South Denver Lawn Equip. Co.
527 West Evans
Denver, Colorado 80223

Suhren Engine
8330 Earhart Blvd.
New Orleans, Louisiana 70118

Sutton's Lawn Mower Shop
Route 4, Box 343
North Little Rock, Arkansas 72117

Warner Equipment
7520 Lyndale Avenue, So.
Minneapolis, Minnesota 55423

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